

What is claimed is:

1. A system for configuring a computer network route, the system comprising:
  - a user interface for providing a configuration interface for a user;
  - a configuration manager for providing configuration services for the user interface;
  - a routing information protocol (RIP) interface;
  - a managing daemon for managing a route, the managing daemon communicating with the configuration manager through the RIP interface;
  - an RIP daemon for performing RIP, the RIP daemon communicating with the configuration manager through the RIP interface; and
  - a kernel routing table for recording routing information of the system;wherein the managing daemon communicates with the RIP daemon by exchanging information.
2. The system as claimed in claim 1, wherein the user interface is a command line interface or a web interface.
3. The system as claimed in claim 1, wherein the managing daemon is a Zebra daemon or a Gated daemon.
4. The system as claimed in claim 3, wherein the managing daemon is used for updating the kernel routing table.
5. The system as claimed in claim 4, wherein the managing daemon is used for redistributing the routes among different routing protocols.

6. The system as claimed in claim 1, wherein the RIP daemon comprises a routing table.

7. The system as claimed in claim 6, wherein the RIP daemon is used for transmitting updating route information periodically.

8. The system as claimed in claim 1, wherein the RIP interface, the managing daemon and the RIP daemon communicate with one another through a UNIX domain socket.

9. A method for configuring a computer network route, the method comprising the following steps:

- (a) transmitting a command line to a configuration manager;
- (b) determining whether there is a match between the command line and any of command lines registered in the configuration manager;
- (c) ordering a routing information protocol (RIP) interface to transmit a message to a managing daemon or an RIP daemon if there is a match;
- (d) receiving the message, and generating a response to the message; and
- (e) returning an acknowledgement message to the RIP interface.

10. The method as claimed in claim 9, further comprising the step of returning error information to a user interface if there is no match.

11. The method as claimed in claim 9, further comprising the following steps before step (d):

- (1) determining whether the managing daemon or the RIP daemon is free;
- and

(2) monitoring the managing daemon or the RIP daemon if the managing daemon or the RIP daemon is not free.

12. The method as claimed in claim 9, further comprising after step (e) the step of obtaining acknowledgement information from the acknowledgement message, and forwarding the acknowledgement information to a user interface.